SEQUENCE LISTING

<110> Patel, Yamini
      Ielpi, Luis
      Schneider, Jane C.
      Ielmini, Maria Veronica

<120> HIGH VISCOSITY XANTHAN POLYMER
   PREPARATIONS

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<150> 60/456,245
<151> 2003-03-21

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Leu Cys Gln Gly Leu Ser Leu Ala Leu Leu Cys Ser Met Ser Leu Gly
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gct tgc agc acc ggc ccg gag atg gcg tct tcg ctg ccg cat ccg gac     2130
Ala Cys Ser Thr Gly Pro Glu Met Ala Ser Ser Leu Pro His Pro Asp
         25                  30                  35

ccg ctg gca atg tcc acg gtg cag ccc gaa tac cgt ctt gcg ccg ggc     2178
Pro Leu Ala Met Ser Thr Val Gln Pro Glu Tyr Arg Leu Ala Pro Gly
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gat ctg ttg ctg gtg aag gtg ttt cag atc gac gat ctg gag cgg cag     2226
Asp Leu Leu Leu Val Lys Val Phe Gln Ile Asp Asp Leu Glu Arg Gln
                 60                  65                  70

gtc cgc atc gac cag aac ggt cac atc tca ctg ccg ttg att ggc gac     2274
Val Arg Ile Asp Gln Asn Gly His Ile Ser Leu Pro Leu Ile Gly Asp
                 75                  80                  85

gtc aag gcc gcc ggt ctg ggc gtt ggc gaa ctg gaa aag ctg gtc gcc     2322
Val Lys Ala Ala Gly Leu Gly Val Gly Glu Leu Glu Lys Leu Val Ala
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gtg cag gag tcc aac ggg cgt cgc gtc acg gtc act ggt gcg gta gac        2418
Val Gln Glu Ser Asn Gly Arg Arg Val Thr Val Thr Gly Ala Val Asp
120                 125                 130                 135

gag ccg ggc atc tac ccg gtg atc ggc gcc aac ctc acc ttg cag cag        2466
Glu Pro Gly Ile Tyr Pro Val Ile Gly Ala Asn Leu Thr Leu Gln Gln
                    140                 145                 150

gcg atc gcg cag gcc aag ggt gtc agc acg gtg gca agc cgc ggc aac        2514
Ala Ile Ala Gln Ala Lys Gly Val Ser Thr Val Ala Ser Arg Gly Asn
                    155                 160                 165

gtg atc gtg ttc cgc atg gtc aac ggg caa aaa atg att gcg cgg ttc        2562
Val Ile Val Phe Arg Met Val Asn Gly Gln Lys Met Ile Ala Arg Phe
            170                 175                 180

gac ctg acc gag atc gag aag ggg gcc aat ccg gat cct gag att tat        2610
Asp Leu Thr Glu Ile Glu Lys Gly Ala Asn Pro Asp Pro Glu Ile Tyr
    185                 190                 195

ggc ggc gac att gtc gtg gtg tat cgc tcg gat gcg cgc gtg tgg ttg        2658
Gly Gly Asp Ile Val Val Val Tyr Arg Ser Asp Ala Arg Val Trp Leu
200                 205                 210                 215

cgc acc atg ctg gaa ctg acc ccc ttg gtg atg gtg tgg cgc gct tac        2706
Arg Thr Met Leu Glu Leu Thr Pro Leu Val Met Val Trp Arg Ala Tyr
                    220                 225                 230

cga tga gt atg aat tca gac aat cgt tcc tct tcg tcg cag cgt cat        2753
Arg  *    Met Asn Ser Asp Asn Arg Ser Ser Ser Ser Gln Arg His
              235                 240                 245

ggt cat ctg gaa ctg gca gat gtc gac ttg atg gac tac tgg cgc gcc        2801
Gly His Leu Glu Leu Ala Asp Val Asp Leu Met Asp Tyr Trp Arg Ala
                    250                 255                 260

ctg gtc tcg cag ctc tgg ctg atc atc ctg atc gcc gtc ggc gcg ctg        2849
Leu Val Ser Gln Leu Trp Leu Ile Ile Leu Ile Ala Val Gly Ala Leu
                    265                 270                 275

ttg ctg gca ttc ggc atc acg atg ttg atg ccc gag aag tac cgc gcc        2897
Leu Leu Ala Phe Gly Ile Thr Met Leu Met Pro Glu Lys Tyr Arg Ala
                    280                 285                 290

acc agc acc ctg cag atc gaa cgt gac tcg ctc aat gtg gtg aac gtc        2945
Thr Ser Thr Leu Gln Ile Glu Arg Asp Ser Leu Asn Val Val Asn Val
    295                 300                 305

gac aac ctg atg ccg gtg gaa tcg ccg cag gat cgc gat ttc tac cag        2993
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Asp Asn Leu Met Pro Val Glu Ser Pro Gln Asp Arg Asp Phe Tyr Gln
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acc cag tac cag ttg ctg cag agc cgt tcg ctg gcg cgt gcg gtg atc      3041
Thr Gln Tyr Gln Leu Leu Gln Ser Arg Ser Leu Ala Arg Ala Val Ile
                330             335             340

cgg gaa gcc aag ctc gat cag gag ccg gcg ttc aag gag cag gtg gag      3089
Arg Glu Ala Lys Leu Asp Gln Glu Pro Ala Phe Lys Glu Gln Val Glu
            345             350             355

gag gcg ctg gcc aaa gcc gcc gaa aag aat ccc gag gcg ggt aag tcg      3137
Glu Ala Leu Ala Lys Ala Ala Glu Lys Asn Pro Glu Ala Gly Lys Ser
        360             365             370

ctc gat tcg cgg cag gcg atc gtc gag cgc agc ctc acc gat acg ttg      3185
Leu Asp Ser Arg Gln Ala Ile Val Glu Arg Ser Leu Thr Asp Thr Leu
        375             380             385

ctc gcc ggg ctg gtg gtc gag ccg atc ctc aac tcg cgc ctg gtg tac      3233
Leu Ala Gly Leu Val Val Glu Pro Ile Leu Asn Ser Arg Leu Val Tyr
390             395             400             405

gtc aat tac gat tcg cca gac ccg gtg ctg gcc gcc aag atc gcc aat      3281
Val Asn Tyr Asp Ser Pro Asp Pro Val Leu Ala Ala Lys Ile Ala Asn
                410             415             420

acg tac ccg aag gtg ttc atc gtc agc acc cag gaa cgc cgc atg aag      3329
Thr Tyr Pro Lys Val Phe Ile Val Ser Thr Gln Glu Arg Arg Met Lys
                425             430             435

gcg tct tcg ttt gcg aca cag ttt ctg gct gag cgc ctg aag cag ttg      3377
Ala Ser Ser Phe Ala Thr Gln Phe Leu Ala Glu Arg Leu Lys Gln Leu
            440             445             450

cgc gag aag gtc gaa gac tct gaa aag gat ctg gtc tcg tat tcg acc      3425
Arg Glu Lys Val Glu Asp Ser Glu Lys Asp Leu Val Ser Tyr Ser Thr
        455             460             465

gaa gag cag atc gtg tcg gtt ggc gat gac aag ccc tcg ctg cct gcg      3473
Glu Glu Gln Ile Val Ser Val Gly Asp Asp Lys Pro Ser Leu Pro Ala
470             475             480             485

cag aat ctg acc gat ctc aat gcg ttg ctg gca tcc gca cag gac gcc      3521
Gln Asn Leu Thr Asp Leu Asn Ala Leu Leu Ala Ser Ala Gln Asp Ala
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cgg atc aag gcc gag tca gct tgg cgg cag gct tcc agt ggc gat ggc      3569
Arg Ile Lys Ala Glu Ser Ala Trp Arg Gln Ala Ser Ser Gly Asp Gly
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atg tca ttg ccg cag gtg ttg agc agc ccg ctg att caa agc ctg cgc      3617
Met Ser Leu Pro Gln Val Leu Ser Ser Pro Leu Ile Gln Ser Leu Arg
        520             525             530
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Ser Glu Gln Val Arg Leu Thr Ser Glu Tyr Gln Gln Lys Leu Ser Thr
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ttc aag ccg gat tac ccg gag atg cag cgc ctc aag gcg cag atc gaa        3713
Phe Lys Pro Asp Tyr Pro Glu Met Gln Arg Leu Lys Ala Gln Ile Glu
550                 555                 560                 565

gag tcg cgt cgt cag atc aat ggc gaa gtc atc aat atc cgt cag tcg        3761
Glu Ser Arg Arg Gln Ile Asn Gly Glu Val Ile Asn Ile Arg Gln Ser
                570                 575                 580

ctg aag gcg acc tac gac gcc tcc gtg cat cag gag cag ctg ctc aac        3809
Leu Lys Ala Thr Tyr Asp Ala Ser Val His Gln Glu Gln Leu Leu Asn
            585                 590                 595

gac cgc atc gcc ggt ctg cgg tcc aac gag ctg gat ctg cag agc cgc        3857
Asp Arg Ile Ala Gly Leu Arg Ser Asn Glu Leu Asp Leu Gln Ser Arg
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agc atc cgc tac aac atg ctc aag cgc gac gtc gac acc aac cgc cag        3905
Ser Ile Arg Tyr Asn Met Leu Lys Arg Asp Val Asp Thr Asn Arg Gln
    615                 620                 625

ctc tac gat gcg ctc ctg cag cgc tac aag gaa atc ggc gtg gcg agc        3953
Leu Tyr Asp Ala Leu Leu Gln Arg Tyr Lys Glu Ile Gly Val Ala Ser
630                 635                 640                 645

aac gtg ggc gcc aac aac gtg acc atc gtc gat acc gca gac gtg cct        4001
Asn Val Gly Ala Asn Asn Val Thr Ile Val Asp Thr Ala Asp Val Pro
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acg tct aag act tcg ccg aaa ctc aaa ttg aac ctc gcg ttg ggc ctg        4049
Thr Ser Lys Thr Ser Pro Lys Leu Lys Leu Asn Leu Ala Leu Gly Leu
            665                 670                 675

atc ttt ggc gta ttc ctg ggc gtg gct gtg gct ctg gtt cgc tac ttc        4097
Ile Phe Gly Val Phe Leu Gly Val Ala Val Ala Leu Val Arg Tyr Phe
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ctg cgt ggg cct tct ccg agg tcg cgg ttg aac tga catcgtgatg           4143
Leu Arg Gly Pro Ser Pro Arg Ser Arg Leu Asn  *
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Ser Ser Leu Pro His Pro Asp Pro Leu Ala Met Ser Thr Val Gln Pro
            35                  40                  45
Glu Tyr Arg Leu Ala Pro Gly Asp Leu Leu Leu Val Lys Val Phe Gln
        50                  55                  60
Ile Asp Asp Leu Glu Arg Gln Val Arg Ile Asp Gln Asn Gly His Ile
65                  70                  75                      80
Ser Leu Pro Leu Ile Gly Asp Val Lys Ala Ala Gly Leu Gly Val Gly
                85                  90                  95
Glu Leu Glu Lys Leu Val Ala Asp Arg Tyr Arg Ala Gly Tyr Leu Gln
            100                 105                 110
Gln Pro Gln Ile Ser Val Phe Val Gln Glu Ser Asn Gly Arg Arg Val
            115                 120                 125
Thr Val Thr Gly Ala Val Asp Glu Pro Gly Ile Tyr Pro Val Ile Gly
            130                 135                 140
Ala Asn Leu Thr Leu Gln Gln Ala Ile Ala Gln Ala Lys Gly Val Ser
145                 150                 155                     160
Thr Val Ala Ser Arg Gly Asn Val Ile Val Phe Arg Met Val Asn Gly
                165                 170                 175
Gln Lys Met Ile Ala Arg Phe Asp Leu Thr Glu Ile Glu Lys Gly Ala
                180                 185                 190
Asn Pro Asp Pro Glu Ile Tyr Gly Gly Asp Ile Val Val Val Tyr Arg
            195                 200                 205
Ser Asp Ala Arg Val Trp Leu Arg Thr Met Leu Glu Leu Thr Pro Leu
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Val Met Val Trp Arg Ala Tyr Arg
225                 230
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            20                  25                  30
Gln Leu Trp Leu Ile Ile Leu Ile Ala Val Gly Ala Leu Leu Leu Ala
        35                  40                  45
Phe Gly Ile Thr Met Leu Met Pro Glu Lys Tyr Arg Ala Thr Ser Thr
        50                  55                  60
Leu Gln Ile Glu Arg Asp Ser Leu Asn Val Val Asn Val Asp Asn Leu
65                  70                  75                      80
Met Pro Val Glu Ser Pro Gln Asp Arg Asp Phe Tyr Gln Thr Gln Tyr
                85                  90                  95
Gln Leu Leu Gln Ser Arg Ser Leu Ala Arg Ala Val Ile Arg Glu Ala
            100                 105                 110
Lys Leu Asp Gln Glu Pro Ala Phe Lys Glu Gln Val Glu Glu Ala Leu
            115                 120                 125
Ala Lys Ala Ala Glu Lys Asn Pro Glu Ala Gly Lys Ser Leu Asp Ser
            130                 135                 140
Arg Gln Ala Ile Val Glu Arg Ser Leu Thr Asp Thr Leu Leu Ala Gly
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Leu Val Val Glu Pro Ile Leu Asn Ser Arg Leu Val Tyr Val Asn Tyr
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Asp Ser Pro Asp Pro Val Leu Ala Ala Lys Ile Ala Asn Thr Tyr Pro
                180                    185                    190
Lys Val Phe Ile Val Ser Thr Gln Glu Arg Arg Met Lys Ala Ser Ser
                195                    200                    205
Phe Ala Thr Gln Phe Leu Ala Glu Arg Leu Lys Gln Leu Arg Glu Lys
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Val Glu Asp Ser Glu Lys Asp Leu Val Ser Tyr Ser Thr Glu Glu Gln
225                    230                    235                    240
Ile Val Ser Val Gly Asp Asp Lys Pro Ser Leu Pro Ala Gln Asn Leu
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Thr Asp Leu Asn Ala Leu Leu Ala Ser Ala Gln Asp Ala Arg Ile Lys
        260                    265                    270
Ala Glu Ser Ala Trp Arg Gln Ala Ser Ser Gly Asp Gly Met Ser Leu
        275                    280                    285
Pro Gln Val Leu Ser Ser Pro Leu Ile Gln Ser Leu Arg Ser Glu Gln
        290                    295                    300
Val Arg Leu Thr Ser Glu Tyr Gln Gln Lys Leu Ser Thr Phe Lys Pro
305                    310                    315                    320
Asp Tyr Pro Glu Met Gln Arg Leu Lys Ala Gln Ile Glu Glu Ser Arg
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Arg Gln Ile Asn Gly Glu Val Ile Asn Ile Arg Gln Ser Leu Lys Ala
                340                    345                    350
Thr Tyr Asp Ala Ser Val His Gln Glu Gln Leu Leu Asn Asp Arg Ile
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Ala Gly Leu Arg Ser Asn Glu Leu Asp Leu Gln Ser Arg Ser Ile Arg
        370                    375                    380
Tyr Asn Met Leu Lys Arg Asp Val Asp Thr Asn Arg Gln Leu Tyr Asp
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Ala Leu Leu Gln Arg Tyr Lys Glu Ile Gly Val Ala Ser Asn Val Gly
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Ala Asn Asn Val Thr Ile Val Asp Thr Ala Asp Val Pro Thr Ser Lys
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Thr Ser Pro Lys Leu Lys Leu Asn Leu Ala Leu Gly Leu Ile Phe Gly
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Pro Ser Pro Arg Ser Arg Leu Asn
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